

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently amended) A method, comprising
emitting an optical signal from a gas plasma that is RF inductively coupled to an
integrated circuit including a gas plasma discharge device having an inductive coil; and
modulating data using at least one pulse modulation technique selected from the group
consisting of pulse position modulation and pulse width modulation,
wherein emitting is controlled at least in part by pulse modulated data,
wherein emitting includes magnetically energizing the inductive coil with the integrated
circuit to induce a discharge from the gas plasma.
2. (Original) The method of claim 1, wherein the integrated circuit includes an oscillator
and magnetically energizing the inductive coil includes magnetically energizing the inductive coil
with the oscillator.
3. (Canceled)
4. (Original) The method of claim 1, further comprising capacitively energizing at least
one member selected from the group consisting of a first capacitive coupling plate and a second
capacitive coupling plate with the integrated circuit to facilitate the discharge from the gas
plasma
5. (Original) The method of claim 1, wherein magnetically energizing the inductive coil
includes the use of a differential drive to increase power.
6. (Original) The method of claim 1, further comprising illuminating the integrated
circuit with actinic radiation to lower an ionization potential of the gas plasma.
7. (Original) The method of claim 1, further comprising applying an RF bias to the gas
plasma and maintaining the RF bias to affect switch-on time of the gas plasma.

8. (Currently amended) A method, comprising
emitting an optical signal from a gas plasma that is RF inductively coupled to an
integrated circuit including a gas plasma discharge device having an inductive coil; and ~~The~~
~~method of claim 1, further comprising~~
igniting the discharge with an electron emitter that is coupled to an optically and
electronically electrically conductive layer,
wherein the gas plasma is located between the integrated circuit and the optically and
electronically electrically conductive layer,
wherein emitting includes magnetically energizing the inductive coil with the integrated
circuit to induce a discharge from the gas plasma.
9. (Original) The method of claim 1, further comprising refracting the optical signal with
an optically conductive layer that is optically coupled to the gas plasma.
10. (Original) The method of claim 1, further comprising diffracting the optical signal with
an acousto-optic crystal that is optically coupled to the gas plasma.
11. (Original) A method of optically broadcasting modulated data to a plurality of optical
detectors comprising the method of claim 1.
- 12-15. (Canceled)
16. (Original) The apparatus of claim 1, wherein the gas plasma discharge device
includes a first capacitive coupling plate and a second capacitive coupling plate.
- 17-94. (Canceled)